



Ministry of
Northern Development
and Mines

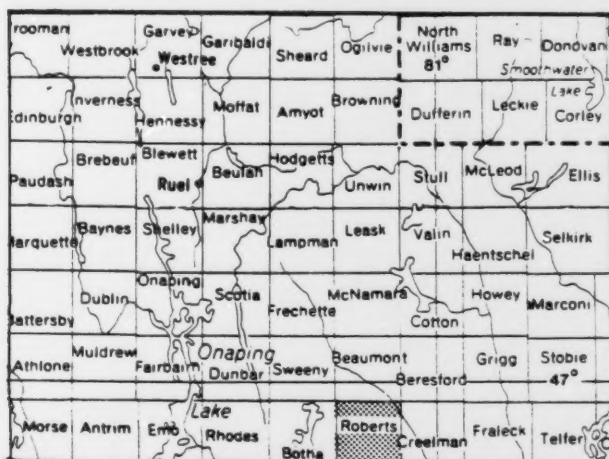
Mines and
Minerals
Division

ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO 486

ROBERTS TOWNSHIP

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP

Scale: 1:1 013 760 or 1 inch to 16 miles



This project is part of the five year Canada-Ontario 1985 Mineral Development Agreement (COMDA), a subsidiary agreement to the Economic and Regional Development Agreement (ERDA) signed by the governments of Canada and Ontario.

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	Multiplied by	Gives	Imperial Unit	Multiplied by	Gives
LENGTH					
1 mm	0.039 37	inches	1 inch	25.4	mm
1 cm	0.393 70	inches	1 inch	2.54	cm
1 m	3.280 84	feet	1 foot	0.304 8	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	1.609 344	km
AREA					
1 cm ²	0.155 0	square inches	1 square inch	6.451 6	cm ²
1 m ²	10.763 9	square feet	1 square foot	0.092 903 04	m ²
1 km ²	0.386 10	square miles	1 square mile	2.589 988	km ²
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
VOLUME					
1 cm ³	0.061 02	cubic inches	1 cubic inch	16.387 064	cm ³
1 m ³	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m ³
1 m ³	1.308 0	cubic yards	1 cubic yard	0.764 555	m ³
CAPACITY					
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	4.546 090	L
MASS					
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	31.103 476 8	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	0.453 592 37	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	907.184 74	kg
1 t	1.102 311	tons (short)	1 ton (short)	0.907 184 74	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	1016.046 908 8	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	1.016 046 908 8	t
CONCENTRATION					
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE—Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

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DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

SOURCES OF DATA		Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	ODM General Index; 9 Volumes	Yes	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	Yes	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L.J.
9	Newspaper Clippings File	Yes	L.J.
10	GSC Index to Publications	Yes	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (O.G.S.)	Yes	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	Miscellaneous Papers: ODM & OGS	Yes	L.J.
16	ODM Geological Circulars: OGS Study Series	No	L.J.
17	ODM Preliminary Reports: ODM Bulletins	No	L.J.
18	ODM - OGS Open File Reports	Yes	L.J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L.J.
20	OGS Aggregate Resources Inventory Papers	No	L.J.
21	OGS Mineral Potential Maps	Yes	L.J.
22	Theses on File, Sudbury	Yes	L.J.
23	Aerial Photographs on File, Sudbury	Yes	L.J.

METALS AND MINERALS REFERENCES LIST

Δ anh.	Anhydrite	Δ fu.	Fuchsite	Δ Ni.	Nickel	Δ st.	Stone
Δ ank.	Ankerite	▲ gn.	Galena	Δ Nb.	Niobium	Δ talc.	Talc
Δ anna.	Annabergite	Δ gt.	Garnet	Δ Pd.	Palladium	Δ Te.	Tellurium
Δ ap.	Apatite	Δ goe.	Goethite	Δ peat.	Peat	Δ td.	Tetrahedrite
Δ arg.	Argentite	Δ Au.	Gold	Δ pent.	Pentlandite	Δ th.	Thorite
Δ As.	Arsenic	Δ gf.	Graphite	Δ Pt.	Platinum	▲ Th.	Thorium
Δ asp.	Arsenopyrite	Δ gl.	Gravel	▲ py.	Pyrite	Δ thuc.	Thucholite
Δ asb.	Asbestos	Δ gyp.	Gypsum	Δ pyl.	Pyrochlore	Δ ti.	Titanite
Δ ba.	Barite	Δ hem.	Hematite	Δ pyrl.	Pyrolusite	Δ Ti.	Titanium
Δ be.	Beryl	Δ il.	Ilmenite	▲ po.	Pyrrhotite	Δ tour.	Tourmaline
Δ Bi.	Bismuth	Δ Fe.	Iron	Δ q.	Quartz	Δ trap.	Trap rock
Δ bn.	Bornite	▲ IF.	Iron Formation	Δ qcv.	Quartz carbonate vein	Δ W.	Tungsten
Δ bran.	Brannerite	Δ jas.	Jasper	Δ ra.	Radioactive minerals	Δ uran.	Uraninite
Δ bruc.	Brucite	Δ kaol.	Kaolinite (kaolin)	Δ RE.	Rare Earths	▲ U.	Uranium
Δ Cd.	Cadmium	Δ ky.	Kyanite	Δ sd.	Sand	Δ verm.	Vermiculite
Δ calc.	Calcite	Δ Pb.	Lead	Δ sgl.	Sand and gravel	Δ Y.	Yttrium
Δ carb.	Carbonate	Δ lim.	Limonite	Δ ss.	Sandstone	Δ Zn.	Zinc
Δ cel.	Celestite	Δ Li.	Lithium	Δ scap.	Scapolite	Δ zr.	Zircon
Δ cc.	Chalcocite	Δ mgst.	Magnesite	Δ shee.	Scheelite		
▲ cp.	Chalcopyrite	Δ mag.	Magnetite	Δ serp.	Serpentine		
Δ ch.	Chert	Δ mc.	Malachite	Δ sh.	Shale		
Δ clay.	Clay	Δ Mn.	Manganese	Δ sid.	Siderite		
Δ Co.	Cobalt	Δ mb.	Marble	Δ si.	Silica		
Δ cob.	Cobaltite	▲ mar.	Marcasite	Δ Ag.	Silver		
Δ cb.	Columbite	Δ ma.	Marl	Δ sl.	Slate		
Δ Cu.	Copper	Δ mi.	Mica	Δ sm.	Smaltite		
Δ cor.	Corundum	Δ ml.	Millerite	Δ sod.	Sodalite		
Δ dol.	Dolomite	▲ mo.	Molybdenite	Δ spec.	Specularite		
Δ ep.	Epidote	Δ Mo.	Molybdenum	▲ sp.	Sphalerite		
Δ ery.	Erythrite	Δ mon.	Monazite	Δ spd.	Spodumene		
Δ fel.	Feldspar	Δ ne.	Nephelite (nepheline)	Δ staur.	Staurolite		
Δ fl.	Fluorite (fluor spar)	Δ nc.	Niccolite	Δ stib.	Stibnite		

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES			Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
Map Ref. Letter	Name(s)	Mineralization			
A	Nordic Industries Ltd. Amax Exploration Inc.	U, Th	--	MDC 25, p. 111	Roberts 0019
B	Assembly Occurrence Elmridge Mines Ltd.	U, po, py	U5	MRC 9, p. 86	GR 91, p. 37, GR 1, pp. 26-27, Roberts 0021-A1
C	Mataris Prospect Elmridge Mines Ltd.	mo, U	mo 1	MRC 7, p. 68	GR 91, pp. 37-38, Roberts 0021-A1
D	Elmridge Mines Ltd.	cp	--	--	GR 91, p. 37, Roberts 0021-A1
E	Roberts Lake Location	U	SMDR 1104	MDC 25, p. 111	GR 91, p. 38
F	Dyno Mines Property	U, po, cp, gn, sp	U2	--	GR 91, p. 38
G	Dyno Mines Ltd. Assembly Mines Ltd.	U, cp, py, mar	--	MRC 12, p. 281	GR 91, p. 38
H	Lostend Lake Occurrence	IF	--	--	GR 91, p. 4
I	Morin Lake Occurrence	IF	Fe5	MRC 11, p. 358	GR 91, p. 7
J	Roberts River Occurrence	IF	Fe4	MRC 11, p. 359	GR 91, p. 7

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																
1	EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
	COMPANY/AUTHOR (file number)																	
1	Assembly Mines Ltd. (Roberts 0011)																	
2	Assembly Mines Ltd. (Roberts 0016-A1)																	
3	Assembly Mines Ltd. (Roberts 0017-A1)																	
4	Assembly Mines Ltd. (Roberts 0013-B1)																	
5	Assembly Mines Ltd. (Roberts 0017-A1)																	
6	Assembly Mines Ltd. (Roberts 0017-A1)																	
7	Assembly Mines Ltd. (Roberts 0013-A1)																	
8	Colleen Copper Mines Ltd. (Roberts 0022-A1)																	
9	Copperville Mining Corp. Ltd. (Kitchener 0012-C1)																	

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
10	Copperville Mining Corp. Ltd. (Kitchener 0012-A1)	69													69					
11	Dyno Mines Ltd. (Roberts 0020-C1)	54																		
12	Dyno Mines Ltd. (Roberts 0020-C1)	54																		
13	Dyno Mines Ltd. (Roberts 0010-A1)				54															
14	Dyno Mines Ltd. (Roberts 0010-A1)				54															
15	Amax Exploration Inc. (Roberts 0015)				74															
16	Nordic Industries Ltd. (Roberts 0018)			69 ²		69														
17	Nordic Mines & Investments Ltd. (Roberts 0014-A1)				68 71?															
18	Nordic Mines & Investments Ltd. (Roberts 0021-B1)							71												

CRIF FORM NO. 1

TYPE OF WORK

EXPLORATION DATA
filed at the
RESIDENT GEOLOGIST'S OFFICE

COMPANY/AUTHOR
(file number)

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY			
19	Karvinen, W.O. (Roberts 0013-D1)				81																
20	Karvinen, W.O. (Roberts 0023)						81 ³														
21	Amex Exploration Inc. (Roberts 0019)		74				74		74						74						
22	PCE Explorations Ltd. (Roberts 0020-A1)														69						
23	Murgor Explorations Ltd. (Beaumont 0010-A1)		69												69 ⁴						
24	Murgor Explorations Ltd. (Beaumont 0010-C1)								69												
25	Murgor Explorations Ltd. (Beaumont 0011-C1)								69- 72												
26	Nordic Industries Ltd. (Beaumont 0011-A1)		69											69							
27	Ross, C. (Roberts 0017-D1)																				

GOLF FORM NO. 2

TYPE OF WORK

Numbers below represent the year in which the work was done; e.g., 68 for 1968.

EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE		COMPANY/AUTHOR (file number)	GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATION	SELF POTENTIAL	RESISTIVITY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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GOLF FORM NO. 3

DRILLHOLE SUMMARY			Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Date Included for
Map Drilling Location Number											
1	Assembly Mines Ltd.	A-1	1966	180	50	8	403	py			
1		A-2	1966	180	50	4	313	py			
1		A-3	1966	180	50	6	294				
1		A-4	1966	180	50	4	242				
1		A-5	1966	180	50	6	293				
1		A-7	1966	180	50	4	504	py, hem			
2		A-6	1966	180	50	6	261	py			
2		A-8	1966	180	50	8	252	py			
3		A-9	1966	180	50	4	267	py			
3		A-10	1966	180	50	8	314	py			
3		A-11	1966	180	50	6	344	py, po, hem, ser			
3		A-12	1966	180	50	18	224	S, py, ser			
3		A-13	1966	180	70	12	348	py, ser			
3		A-14	1966	180	50	8	257	py, ser			
3		A-15	1966	360	50	26	299	py, ser			
3		A-16	1966	360	50	4	325	py, calc, ser			
4		A-17	1967	360	50	22	395	py			
5		A-18	1967	180	50	4	375				
6	A-19	1967	270	50	6	490	py, cp, po, sp, gn				
7	A-20	1967	270	50	10	498	py, po, cp, gn, sp				
8	A-21	1967	270	50	6	470	cp, po, gn, sp				
9	A-22	1967	270	50	6	471	py, po, cp, sp, gn				
10	A90	1968	180	70	4	283	py				
10	A90A	1968	180	70	4	623	py, po				
11	A91	1968	180	70	3	295	py, S				
12	A92	1968	205	50	4	507					
13	A93	1968	230	50	10	500	py, S				
14	A89	1968	270	50	8.5	305	py				
15	A67	1968	225	60	1.5	349	py				
16	A68	1968	225	60	4	525	py				
17	A69	1968	225	60	6	453	py				
18	1	1954	270	?	5	205	S				
18	2	1954	270	?	5	300	S				
			Dyno Mines Ltd.								

DRILLHOLE SUMMARY		Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Data Included for
Map Drilling Location Number										
18		Dyno Mines Ltd. (cont'd)	3	1954	?	45	5	204	cp	
18			4	1954	?	75	5	325	S	
19			5	1954	?	45	6	235	cp	
19			6	1954	?	75	7	372		
19			7	1954	?	43	10	254	S	
19			8	1954	275	75	12	304	S, py	
19			9	1954	275	41	5	217	py, cp	
19			10	1954	?	71	6	285	py	
19			11	1954	275	40	10	306	py	
20			R74-1	1974	160	45	21	204	py	U, Th
20		Amax Exploration Inc.	R74-2	1974	160	45	104	435	py	U
20			R74-3	1974	145	45	3.9	235	py, hem	U, Th
20			R74-4	1974	160	45	108	403	py, ep, cp	U
20			R74-5	1974	160	45	60	527	py	U
21			1 to 29	1971?	29 percussion		drillholes, location shown, no other data			
21		Nordic Mines & Investments Ltd.	1	1968	135	45	7	257	py	U
21			2	1968	135	43	13.5	228	py	U
21			3	1968	135	45	75	536	py, po	U
22			81-K1	1981	150	45	4	225	py, po, mag, cp	
22			81-K2	1981	155	45	2	250	py, po, cp, mag, gn	
23		Humphries, H.C.	1	1967	--	90	0	110.5	py	
24			2	1967	090	70	0	103	py	
25			3	1968	225	60	0	101	py	
25			5	1968	?	45	0	102	py	
25			10	1971	--	90	0	101.6	py, po	
25			11	1972	--	90	0	70	py	
26			4	1968	180?	45	0	50	py	
27			6	1969	?	60	0	110	py	
27			7	1971	?	83	0	104.5	py	
27			8	1971	?	78	0	40	py	
27			9	1971	?	14	0	101.5	py	
28			12	1972	--	90	0	107	py	
28			13	1973	?	?	0	104.3	py	

DRILLHOLE SUMMARY			Company Drillhole Number	Date Drilled	Bearing Azimuth Degrees	Initial Dip of Hole Degrees	Thickness of Overburden Feet	Total Length of Hole Feet	Mineralization Noted in Log	Assay Date Included for
Map Drilling Location Number	Company Name									
28	Humphries, H. C., cont'd		14	1973	180	?	0	102.6	cp	
28			15	1973	225?	70	0	101.3	py, po	
29	The Hanna Mining Co.		1	1965	360	45	21	264	py, po	
30			2	1965	040	45	42	441	py, po	
31			3	1965	040	43	18	490	py, po	
32			1	1965	050	51	29	342	py, po	
33			2	1965	170	45	7	254	py, po	

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By For	Type of Survey		Flight Altitude	Flight Line Direction	Flight Line Spacing
28	Erana Mines Ltd. Burns, I. and Associates	Airborne radiometric		200'	N/S	660'
31	Lefort, Marc et al Ingamar Exploration Ltd.	Airborne radiometric		200'	N	1/8 mile
34	Erana Mines Ltd. Ike Burns Exploration Co.	Airborne magnetic		250'	N/S	330'
35	Erana Mines Ltd. Ike Burns Exploration Co.	Airborne magnetic		250'	N/S	330'
41	Scintrex Surveys Ltd. Gulf Minerals Canada Ltd.	Airborne electromagnetic, radiometric and magnetic		200'	N/S	400'

GDIF FORM NO. 4

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

Several sulphide and uranium occurrences are shown on OGS Map 2212 accompanying GR 91 which are not listed in the "Mineral Occurrences" section of this report. These occurrences are reported mineralized zones in diamond drill core for different drillholes and are already noted in the "Drillhole Summary" section of this publication. As the occurrences are not further developed they will remain as notations in the corelogging section and will not be repeated in the mineral occurrence section.

NEWSPAPER CLIPPINGS FILE

NOTE A file of newspaper clippings about the companies listed below who have worked in this area, is maintained in the Regional Resident Geologist's Office.

Jorex Ltd.

Northern Miner

July 1, 1976
August 26, 1976

Murgor Mines

Northern Miner

July 24, 1969

Nordic Mines & Investments Ltd.

Northern Miner

March 27, 1969
July 24, 1969

ODM GENERAL INDEX SEARCH

Words searched:

AMAX EXPLORATION INC.
 ASSEMBLY MINES LTD.
 ASSEMBLY OCCURRENCE
 BURNS, I. AND ASSOCIATES
 CAN-NEW-MEX URANIUM MINES LTD.
 CAVERLY, J.

COLLEEN COPPER MINES LTD.
 COPPERVILLE MINING CORP. LTD.
 DYNO MINES LTD.
 ELMRIDGE MINES LTD.
 GULF MINERALS CANADA LTD.
 HANNA MINING CO., THE

Index Volume	Listing:	Report Volume	Part	Page
1	Roberts Tp., Sud. Iron prospecting ore, notes by Culbert Molybdenite discovered in	13 13 25	1 1 1	219 223 44
2	Roberts Tp., Sud. Iron formation Molybdenite	I.O. 26		206 309
3	Roberts Tp., Sud. Rocks see also map 41e	41 41	4 4	31, 34
5	Assembly Mines Ltd. Incorporated	63	1	56
5	Dyno Mines Ltd. Change of name	63	1	60
5	Elmridge Mines Ltd. Incorporated	63	1	57
7	Dyno Mines Ltd. Uranium claims, Roberts Tp.	GR1		26
7	Elmridge Mines Ltd. Uranium claims, Roberts Tp.	GR1		26
8	Assembly Mines Hutton Tp. area, Sudbury Dist. report on Dyno Location report on Elmridge Location report on Roberts L. Location	GR80 MP11 MP63 GR91 GR91 GR91		42,64-68 51 89 38 36-38 38
8	Caverly, J. Roberts & Fraleck Tps., Sudbury Dist.	GR91		35-36
8	Hanna Mining Co. Ltd., The Roberts Tp., Sudbury Dist.	GR91 MP11		41-42 51
8	Laliberte, E. Roberts Tp., Sudbury Dist.	GR91		36

ODM GENERAL INDEX SEARCH

Words searched:

HUMPHRIES, H. C.
 INGAMAR EXPLORATION LTD.
 JOREX LTD.
 KARVINEN, W. O.
 LALIBERTE, E.
 LOSTEND LAKE OCCURRENCE

MCGRINDLE LAKE
 MASSEY, E.
 MATARIS PROSPECT
 MORIN LAKE OCCURRENCE
 MURGOR EXPLORATIONS LTD.
 NORDIC INDUSTRIES LTD.

Index Volume	Listing:	Report Volume	Part	Page
8	Lostend lake Roberts Tp., Sudbury Dist.	GR91		4
8	Massey, E. Roberts & Creelman Tps., Sudbury Dist.	GR91		35, 36
8	Mataris Prospect Roberts Tp., Sudbury Dist.	GR91		37
6	Dyno Mines Ltd. Capital; officers; operations: (1955) Name changed	65 66	2 1	145 36
8	Morin Lake Roberts Tp., Sudbury Dist.	GR91		4, 7, 32
8	Morin Lake Fault Roberts Tp., Sudbury Dist.	GR91		31
8	Morin Lake Occurrences Roberts Tp., Sudbury Dist.	MRC11		358-359
8	Nordic Ind. Ltd. Roberts Tp. area, Sudbury District	GR91 GR108		32 43
8	Racicot, F. Roberts Tp., Sudbury Dist.	GR91		35, 36
8	Richer, R. Roberts Tp., Sudbury Dist.	GR91		35, 36
8	Ross, C. & H. Roberts Tp., Sudbury Dist.	GR91		35, 36
9	McGrindle Lake Roberts & Botha Tps., Sudbury Dist.	GR196		9, 41

ODM GENERAL INDEX SEARCH

Words searched:

NORDIC MINES & INVESTMENTS LTD.
 PCE EXPLORATIONS LTD.
 RACICOT, F.
 RICHER, R.
 ROBERTS LAKE

ROBERTS TOWNSHIP
 ROSS, C.
 ROSS, H.
 TX RESOURCES LTD.

Index Volume	Listing:	Report Volume	Part	Page

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
		<u>REGIONAL GEOLOGICAL COMPILATION MAPS</u>			
Card, K. D.	1965,67	Cartier Sheet		ODM Map P.287	1" = 2 miles
Card, K. D., Lumbers, S.B.	1974,75	Sudbury-Cobalt Geological Compilation (revised)		OGS Map 2361	1" = 4 miles
Meyn, H. D.	1971	Geology of Roberts, Creelman and Fraleck Townships		ODMNA Map 2212	1" = 1/2 mile
	1969	Geology of Roberts Township		ODM OFR Map P.449	1" = 1/4 mile
		<u>GEOPHYSICAL MAPS</u>			
GSC - ODM	1965	Aeromagnetic Map - Venetian Lake		1519G	1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area		OGS Map P.2482	1:100 000
ODM - GSC	1965	Aeromagnetic Map - Sudbury Sheet		7067G	1" = 4 miles
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury		Map P.1610	1:250 000
		<u>SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING</u>			
EMR	1975	Topographic Map - Venetian Lake		41 I/14	1:50 000
Gartner, J. F.	1980	NOEGTS Data Base Map, Cartier NOEGT Study 94, Cartier Area NOEGTS General Construction Capability Map, Cartier		Map 5000 Map 5004	1:100 000 1:100 000
Sado, E. V., Carswell, B.F.	1987	Surficial Geology of Northern Ontario		OGS Map 2518	1: 1 200 000

SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
		<u>MINERAL POTENTIAL MAPS</u>		
Meyn, H. D.	1975	Iron Deposits of Ontario, East Central Sheet	OGS Map P.1043	1" = 16 miles
Meyn, H. D., Howarth, J. R.	1977	Molybdenum Deposits of Ontario, East Central Sheet	OGS Map P.1246	1" = 16 miles
Robertson, J. A.	1982	Uranium and Thorium Deposits of Ontario, East Central Sheet	ODM Map P.2426	1" = 16 miles
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	OGS Map P.1512	1:250 000
		<u>GEOCHEMICAL MAPS</u>		
Barringer Magenta Ltd.	1979	Roberts Orientation Survey	Geochemical - Roberts Township	
		<u>GEOLOGICAL REPORTS AND MAPS</u>		
Adlington, R.	1982	Roberts Township - Sudbury Data Series	OGS Map P.2467	1" = 1/4 mile
Johnston, F. J.	1968	Molybdenum Deposits of Ontario	MRC 7	
Kindle, L. F.	1932	Moose Mountain - Wanapitei Area	ODM AR Vol. 41, pt. 4 Map 41E	pp. 29-49 4" = 3 miles
Meyn, H. D.	1971	Geology of Roberts, Creelman and Fraleck Townships	GR 91 Map 2212	1" = 1/2 mile
Robertson, J. A.	1968	Uranium and Thorium Deposits of Northern Ontario	MRC 9	
Robertson, J. A. & Gould, K. L.	1983	Uranium and Thorium Deposits of Northern Ontario	MDC 25	

Author	Date	SELECTED REFERENCES		Reference	Map Scales and/or Report Pages
		Title			
Shklanka, R.	1968	Iron Deposits of Ontario		MRC 11	
	1969	Copper, Nickel, Lead and Zinc Deposits of Ontario		MRC 12	
	1960	Uranium and Thorium Deposits at the Base of the Huronian System in the District of Sudbury, Ontario		GR 1	
		<u>JOURNALS, ARTICLES, THESES AND TECHNICAL REPORTS</u>			
Bush, L. A.	1949	Molybdenite Ores of the United States and Canada; M. Sc., University of Michigan		MP 2	
Card, K. D.	1959	The Uranium-Bearing Huronian Sediments of the Sudbury District; B. Sc., Queen's University		MP 2	
Chandler, F. W.	1986	Sedimentology and Paleoclimatology of the Huronian (Early Archebian) Lorrain and Gordon Lake Formations and their Bearing on Models for Sedimentary Copper Mineralization		GSC Paper 86-1A	pp. 121-132
Eade, K. E.	1950	The Huronian Rocks of Northwestern Ontario; M. Sc., McGill University		MP 2	
Goodwin, J. R.	1979	Depositional and Diagenetic Aspects (The Mississagi Formation) Roberts Township		Theses on File	
Hadley, D. G.	1968	The Sedimentology of the Huronian Formation Ontario and Quebec, Canada		Theses on File	
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation, Ontario, Canada		GSA Bull. 80	pp. 1685-1702

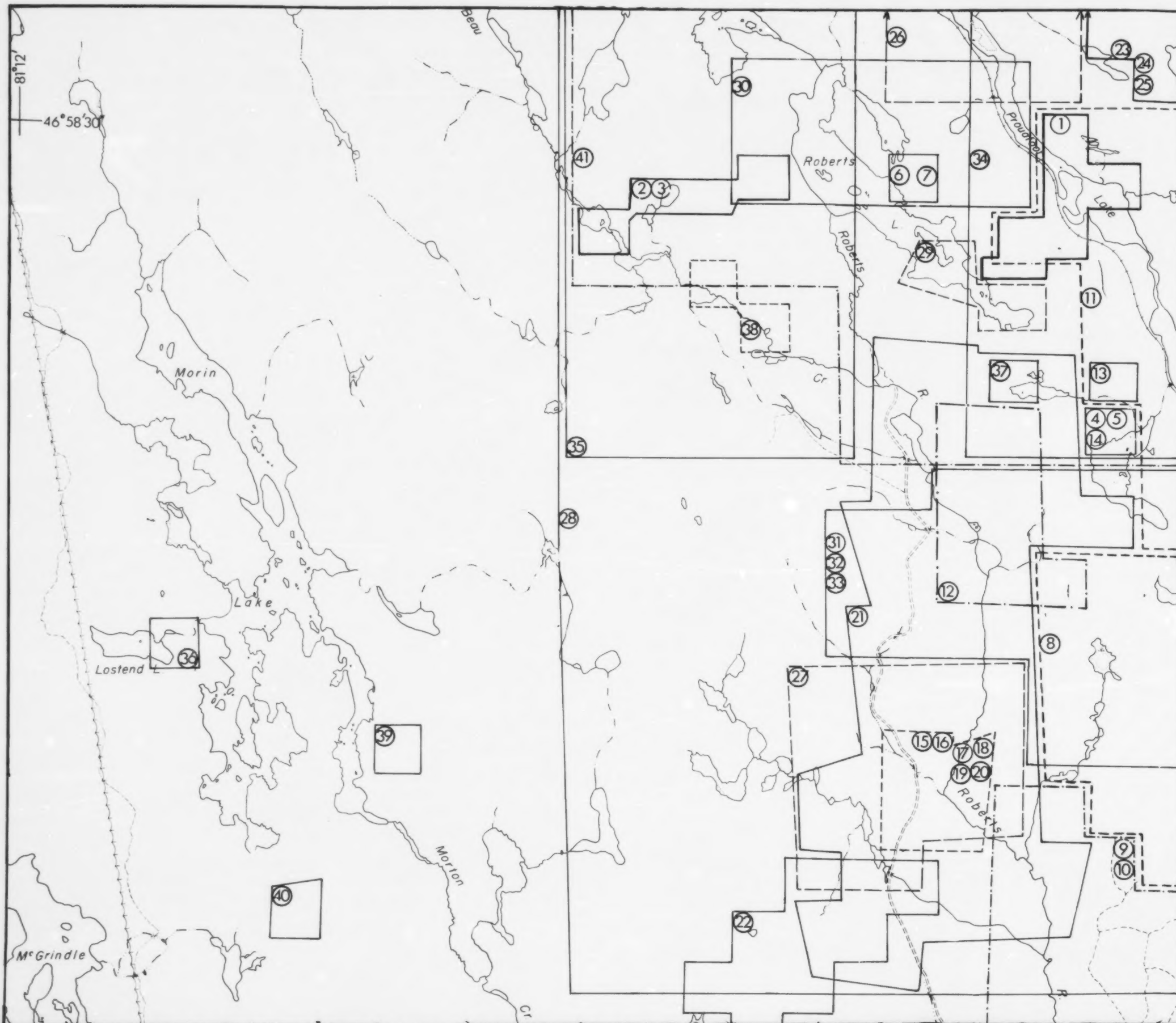
SELECTED REFERENCES			Reference	Map Scales and/or Report Pages
Author	Date	Title		
Long, D. G. F.	1978	Depositional Environments of a Thick Proterozoic Sandstone: the (Huronian) Mississagi Formation of Ontario	CJES Vol. 15	pp. 190-206
Meyn, H. D.	1969	Geology of Roberts, Creelman and Fraleck Townships	OFR 5033 Map P.449	1" = 1/4 mile
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Formation, Ontario	Theses on File	
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates in the Canadian Shield	GSC Paper 68-40	
Young, G. M.	1981	Diamictites of the Early Proterozoic Ramsay Lake and Bruce Formations, North Shore of Lake Huron, Ontario. Earth's Pre-Pleistocene Glacial Record	Cambridge University Press	pp. 813-816

NOTES AND ADDENDA

AERIAL PHOTOGRAPHS INDEX

SCALE 1" = 1/4 mile

<u>Year</u>	<u>Roll</u>	<u>Line</u>	<u>Number</u>
1973	30	4640	187-193
	29	4639	177-181
	28	4638	267-272
	28	4637	76-81
1959	14	4638	17-20
	5	4638	3-5
	13	4637	85-91
	70	4636	7-12
	70	4636	94
	70	4635	86-88
	4	4635	2-4



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Division

ONTARIO GEOLOGICAL SURVEY

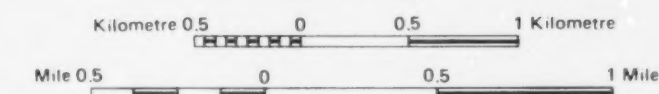
PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 486

(Map 1 of 2)

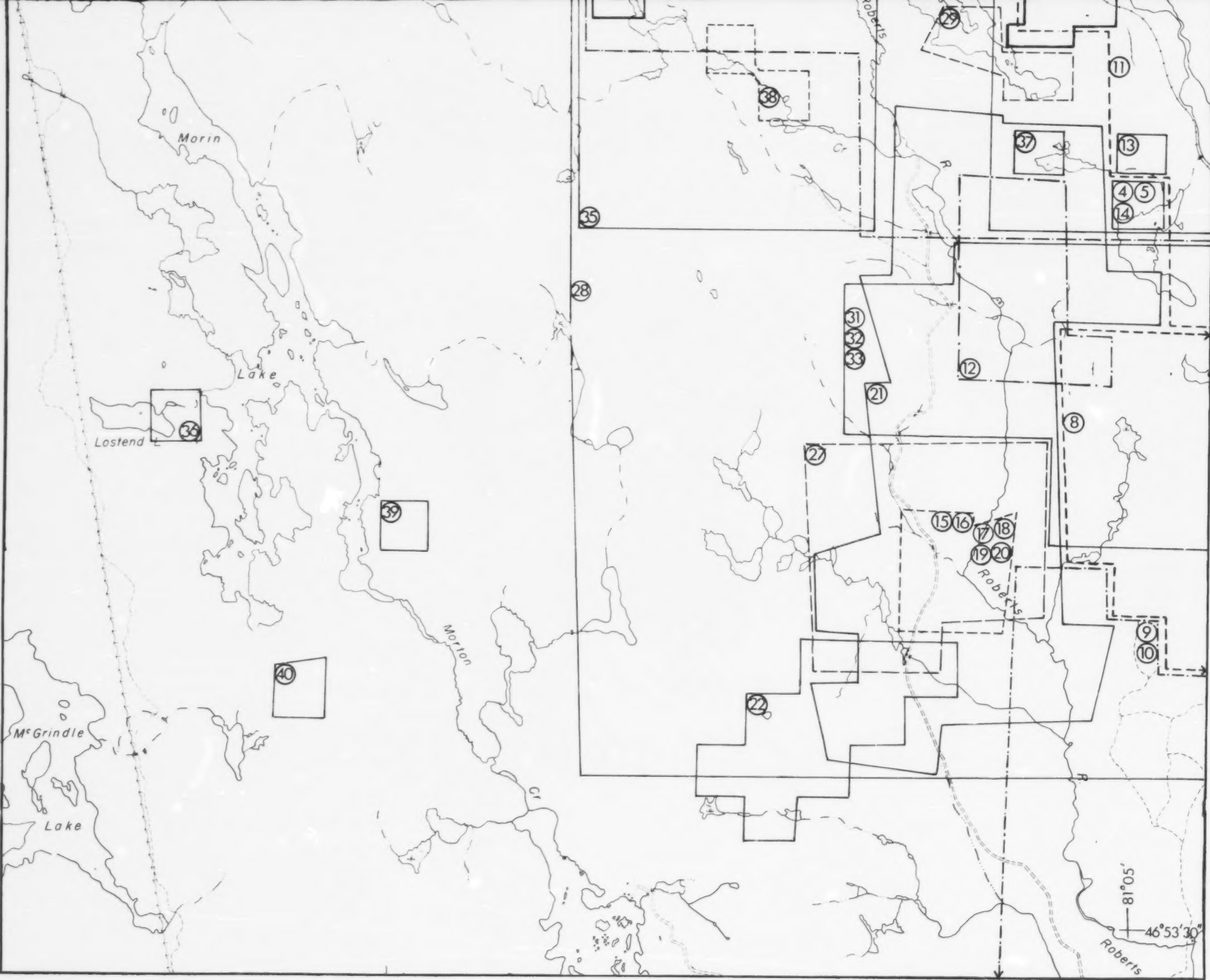
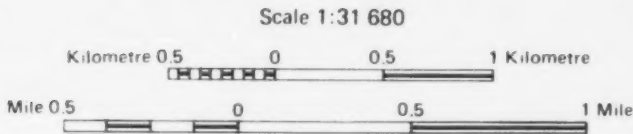
ROBERTS TOWNSHIP

Scale 1:31 680



EXPLORATION DATA FILE AREAS

ROBERTS TOWNSHIP



EXPLORATION DATA FILE ARÉAS

- / ① \ ⑥ Reference number is always inside work area outlined. See listing in text pages.
- x ④ Small area of exploration
- ★ File covers whole township or area

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

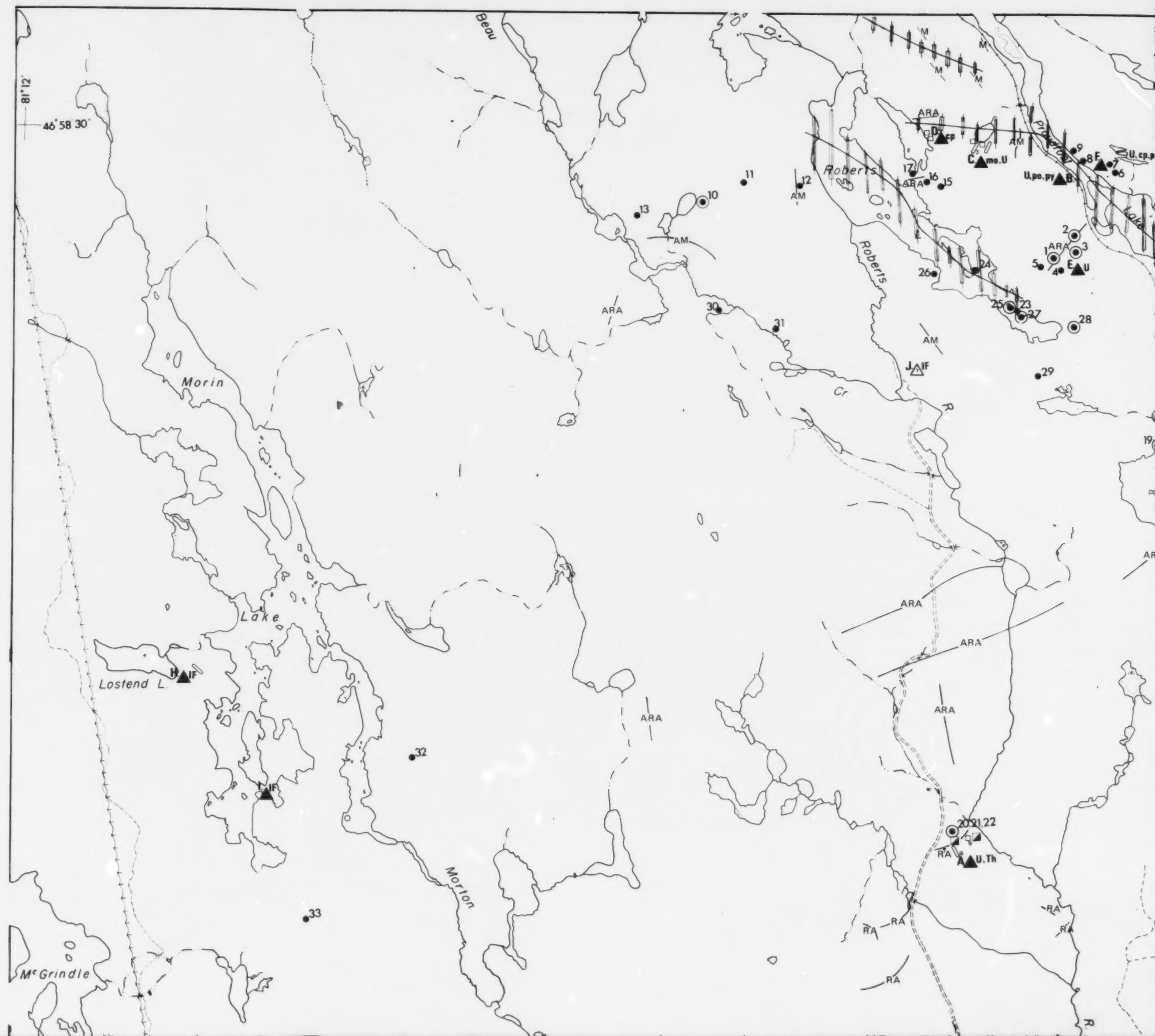
- ☐ Geochemical sample site, with reference number
- ☐ Area of geochemical sampling, with reference number
- ☐ Age dating material sampling site, with reference number

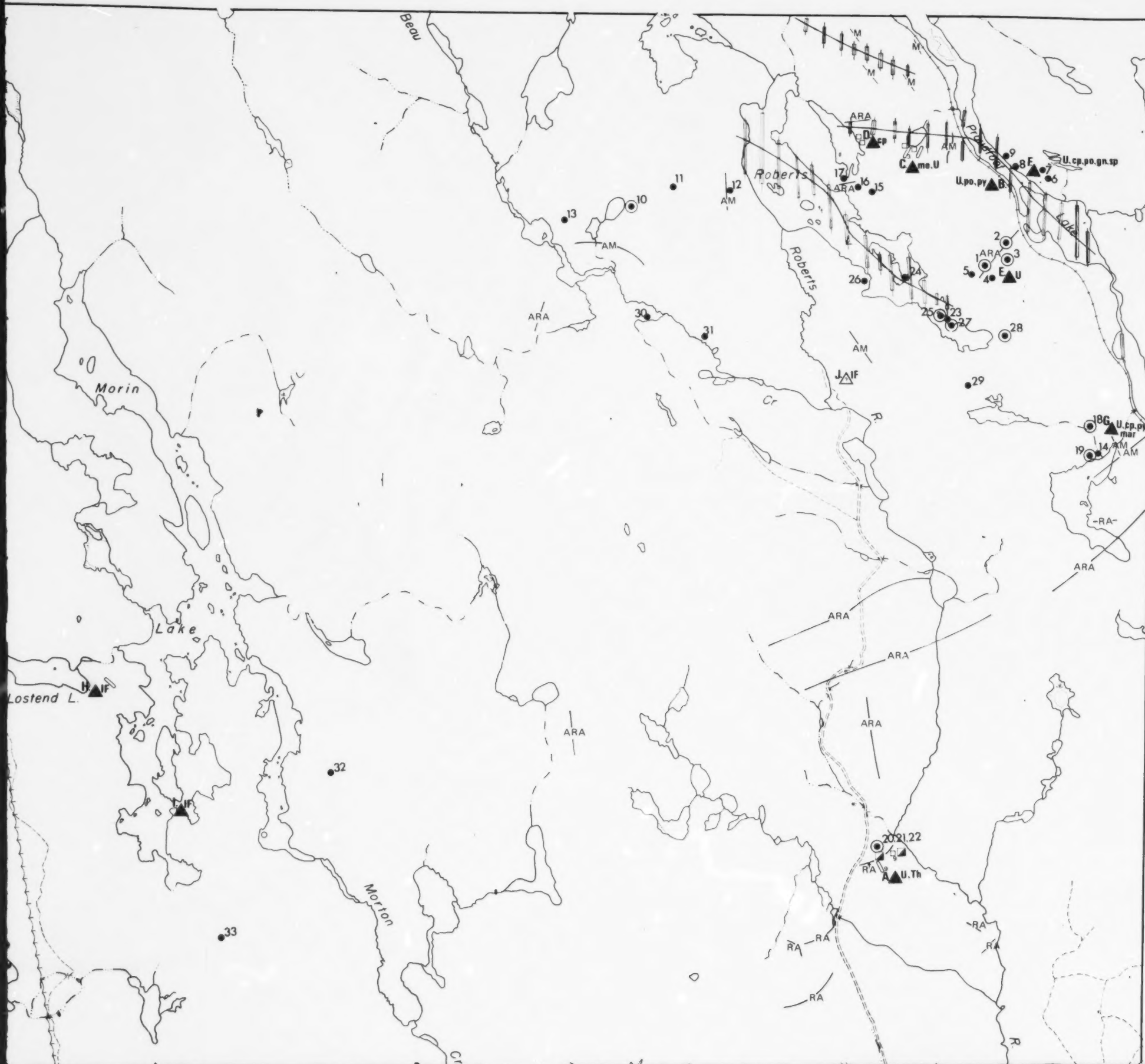
GEOPHYSICAL ANOMALIES

- ☒ Airborne magnetic anomaly
- ☒ Airborne electromagnetic anomaly
Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
Location of anomaly along flight line
- ☒ Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible
- ☒ Airborne radiometric anomaly
- ☒ Ground magnetic anomaly
- ☐ Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop
VLF - Very low freq.; Turam; JEM -
Crone Em - 16)
- ☒ Ground radiometric anomaly
- ☐ Induced polarization anomaly
- ☐ Self potential anomaly
- ☐ Audio-frequency magnetic anomaly
(total intensity)
- ☐ Resistivity anomaly
- ☐ Gravity anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Rock quarry
- ☐ Adit
- ☐ Sand and/or gravel pit





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ONTARIO GEOLOGICAL SURVEY

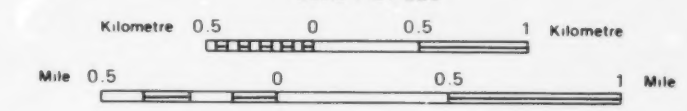
EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 486

(Map 2 of 2)

ROBERTS TOWNSHIP

Scale 1:31 680



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- ☒ Mineral occurrence at surface, with reference letter
- ☐ Mineral occurrence with shaft, depth given with reference letter
- ☒ Mineral occurrence reported but exact location uncertain, with reference letter
- ☐ Mineralized float with reference letter
- ☐ Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- ☒ Location of single drillhole, with reference number
- ☒ Location of closely spaced group of drillholes, with reference number
- ☐ Drillhole, exact location uncertain, with reference number
- ☐ Property with underground drillholes in this general area with reference number

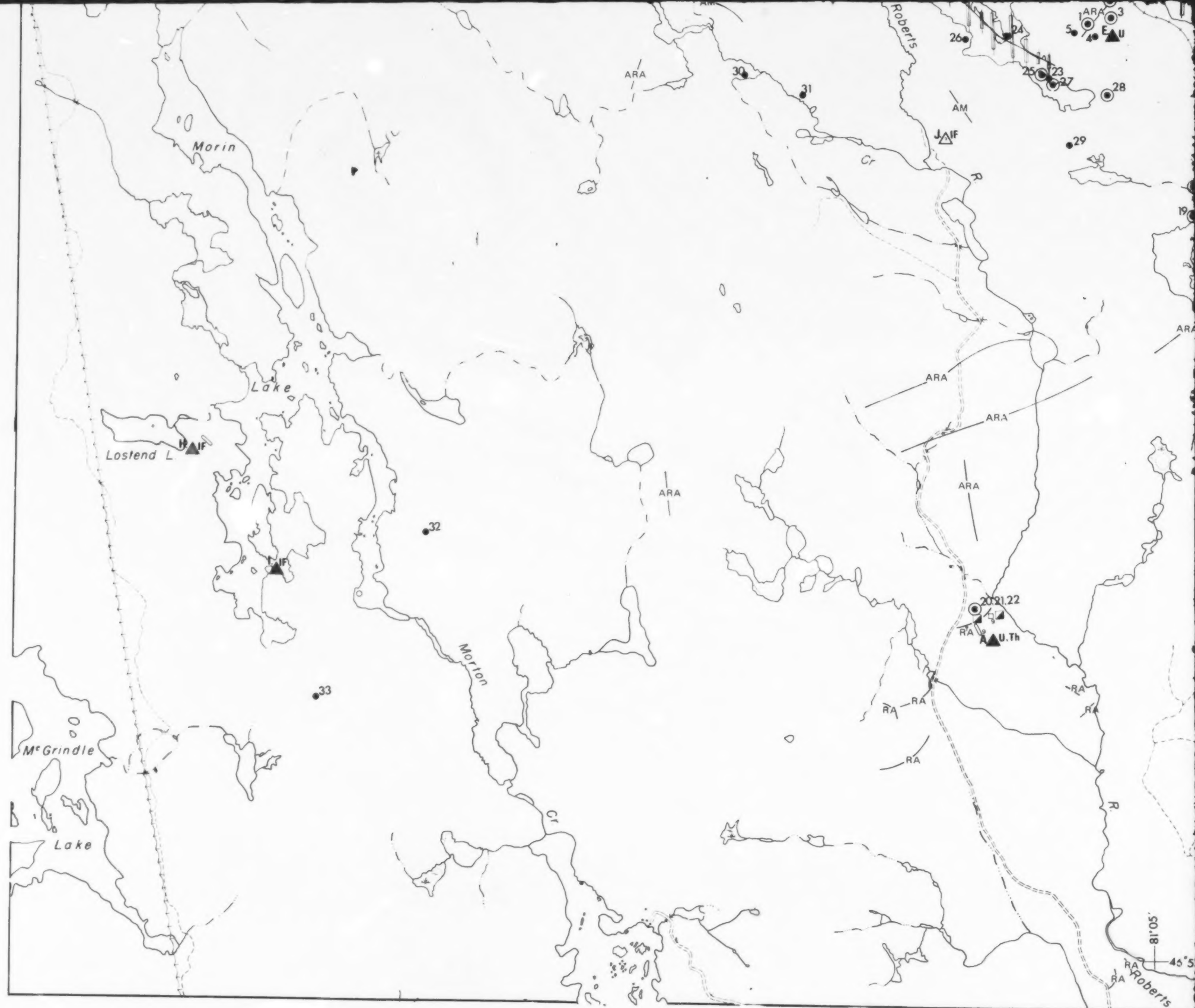
GEOPHYSICAL ANOMALIES

-  Airborne magnetic anomaly
-  Airborne electromagnetic anomaly
Length of anomaly along flight line
-  Airborne electromagnetic anomaly
Location of anomaly along flight line
-  Airborne electromagnetic anomaly
Conductor axis: definite, probable, possible
-  Airborne radiometric anomaly
-  Ground magnetic anomaly
-  Ground electromagnetic anomaly
(VL - Vertical loop; HL - Horizontal loop
VLF - Very low freq.; Turam; JEM -
Crone Em - 16)
-  Ground radiometric anomaly
-  Induced polarization anomaly
-  Self potential anomaly
-  Audio-frequency magnetic anomaly
(total intensity)
-  Resistivity anomaly
-  Gravity anomaly

MISCELLANEOUS DATA

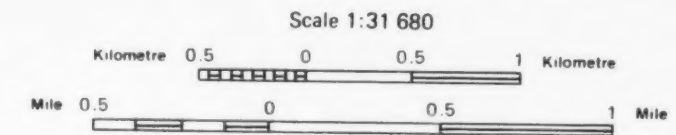
- | | |
|--|--|
| □  Trenching, pit | □  Rock quarry |
| □  Adit | □  Sand and/or gravel pit |
| □  Open pit | ■  Shaft |

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.





ROBERTS TOWNSHIP



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- Mineral occurrence at surface, with reference letter
- Mineral occurrence with shaft, depth given with reference letter
- Mineral occurrence reported but exact location uncertain, with reference letter
- Mineralized float with reference letter
- Mineral occurrence in drillhole, with reference letter, and drillhole number

DRILLHOLES

- Location of single drillhole, with reference number
- Location of closely spaced group of drillholes, with reference number
- Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area with reference number
- Property with drillholes which have not been plotted on map, with reference number
- Reverse circulation drillhole; churn drilling, with reference number